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September 27, 2004

Attn: The Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Certificate  
OCT 08 2004  
of Correction

09/900,348

Re: U.S. Patent No.: 6,774,557 B2  
Issued: August 10, 2004  
Title: FLUORESCENT LAMP HAVING REDUCED MERCURY CONSUMPTION  
Inventor: Jon B. Jansma  
Our Docket No.: 33413

Sir:

A Certificate of Correction under 35 U.S.C. 254 is hereby requested to correct Patent Office printing errors in the above-identified patent. Enclosed herewith is a proposed Certificate of Correction (Form No. PTO-1050) and documentation in support of the proposed corrections for consideration.

It is requested that the Certificate of Correction be completed and mailed at an early date to the undersigned attorney of record.

Respectfully submitted,

By John P. Murtaugh  
John P. Murtaugh, Reg. No. 34226

JPM/ck  
Enclosures: Form PTO/SB/44

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

John P. Murtaugh

Name of Attorney for Applicant(s)

9-28-04 John P. Murtaugh

Date

Signature of Attorney

OCT 08 2004

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO. : 6,774,557 B2  
DATED : August 10, 2004  
INVENTOR(S) : Jon B. Jansma

PAGE 1 OF 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6

Claim 8, line 1, please delete "aim" and insert therefore --claim--.

Claim 10, line 1, please delete "TB" and insert therefore --T8--.

Column 7

Claim 12 continued, line 4, after "yttrium" please add --salt--.

Claim 16, line 1, please delete "limp" and insert therefore --lamp--.

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PATENT NO. 6,774,557 B2

No. of additional copies

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## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1 (original): A mercury vapor discharge fluorescent lamp comprising a light-transmissive glass envelope having an inner surface, means for providing a discharge, a barrier layer coated adjacent said inner surface of said glass envelope, a phosphor layer coated adjacent the inner surface of said barrier layer, and a fill gas of mercury and an inert gas sealed inside said envelope, said barrier layer comprising barrier layer substrate particles and 0.1-10 wt.% yttria, said barrier layer having crystalline yttria particles dispersed throughout said barrier layer.

2 (original): A lamp according to claim 1, wherein said barrier layer is an alumina barrier layer.

3 (original): A lamp according to claim 1, said barrier layer further comprising a yttria film coated over the surfaces of said barrier layer substrate particles and said inner surface of said glass envelope.

4 (original): A lamp according to claim 2, said alumina barrier layer comprising a mixture of alpha- and gamma-alumina particles having a mean particle size of 15-800 nm.

5 (original): A lamp according to claim 2, said alumina barrier layer having a coating weight of 0.05-3 mg/cm<sup>2</sup>.

6 (original): A lamp according to claim 1, said barrier layer being selected from the group consisting of silica, hafnia, zirconia, vanadia, and niobia barrier layers, and mixtures thereof.

*New claim 10*

7 (original): A lamp according to claim 1, said lamp being a T8 lamp initially containing less than 5 mg of mercury.

*New claim 12*

8 (currently amended): A mercury vapor discharge lamp comprising a light-transmissive glass envelope having an inner surface, means for providing a discharge, a phosphor layer coated adjacent the inner surface of said glass envelope, and a fill gas of mercury and an inert gas sealed inside said envelope, said phosphor layer comprising phosphor particles and 0.001-10 wt.% yttria, said phosphor layer having crystalline yttria particles dispersed throughout said phosphor layer, said phosphor layer further comprising a yttria film coated over the surfaces of said phosphor particles and said inner surface of said

7 glass envelope, each of said phosphor particles having a yttria film substantially uniformly coated over  
8 its surface, said yttria film being formed from yttrium salt dissolved in a liquid medium.

1 9 (original): A lamp according to claim 8, wherein said phosphor layer is a rare earth triphosphor layer.

1 10 (canceled)

1 11 (original): A lamp according to claim 8, wherein said phosphor layer has a coating weight of 1-5  
2 mg/cm<sup>2</sup>.

1 12 (original): A lamp according to claim 8, wherein said phosphor layer is a halophosphate layer.

1 *New claim 16*  
1 13 (original): A lamp according to claim 8, said lamp being a T8 lamp initially containing less than 5 mg  
2 of mercury.

1 14-25 (canceled)

1 26 (previously presented): The lamp of claim 8, said phosphor layer comprising 0.01-5 wt. % yttria.

1 27 (previously presented): The lamp of claim 8, said phosphor layer comprising 1 wt. % yttria.

1 28 (previously presented): The lamp of claim 8, wherein said lamp is free from the presence of a barrier  
2 layer between said phosphor layer and said glass envelope.

1 29 (previously presented): The lamp of claim 8, wherein the yttria film coated over the surfaces of said  
2 phosphor particles is sufficiently thin to substantially avoid adverse optical effects.

1 30 (previously presented): The lamp of claim 1, said barrier layer comprising 1-4 wt. % yttria.

1 31 (previously presented): The lamp of claim 2, said barrier layer comprising 1.5-3 wt. % yttria.

1 32 (previously presented): The lamp of claim 2, said barrier layer comprising about 2 wt. % yttria.

1 *New claim 8*  
1 33 (previously presented): The lamp of claim 3, wherein each of said barrier layer substrate particles has  
2 a yttria film substantially uniformly coated over its surface.